



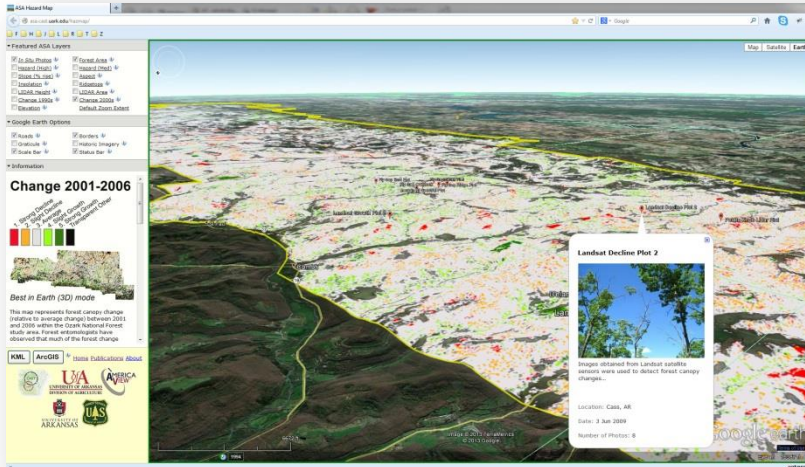
ArkansasView Executive Summary



Remote Sensing Resources for Arkansas

Promoting the Benefits of Remote Sensing Data and Applications

Upgraded Landsat-driven Online Spatial Decision Support System



The **ASA Hazard Map** features change detection products derived from Landsat TM/ETM+ from 1990-2006. This online interface allows easy access to metadata, 2D and 3D viewing, and rapid download of satellite imagery and related GIS project data ready for use in ArcGIS 10 with the *Spatial Analyst* extension. The system is found at <http://asa.cast.uark.edu>.

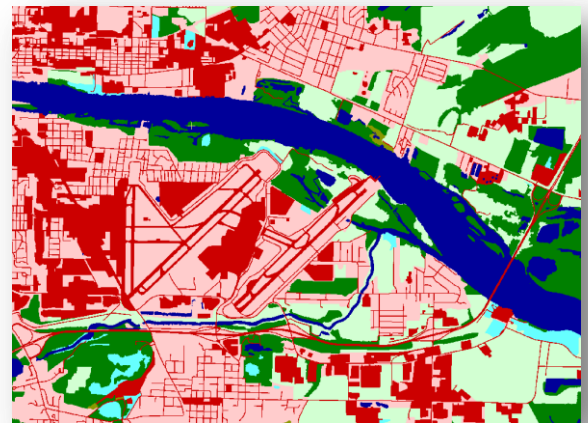
Thriving Oak-hickory forests are among Arkansas greatest treasures. Much of this land is privately owned. In recent years, drought and other pressures on the forest have resulted in unprecedented tree damage and mortality due to red oak borer. ArkansasView assisted the Forest Entomology Lab at University of Arkansas to upgrade its Landsat satellite-driven online spatial decision support system (SDSS) called the "ASA Hazard Map". This involved a complete website overhaul to increase the ASA Hazard Map's functionality and to extend its life cycle.

Benefits of the ASA Hazard Map

Even though the unprecedented red oak borer populations fell back to relatively normal levels after 2005, the hundreds of thousands of hectares of oak-hickory forest damaged affected the state's lumber industry and is a major concern for many forest land owners going forward. By preserving this tool for future years, ArkansasView is providing a service to educate forest owners in Arkansas about the forest changes they might expect and helps them in their silvicultural plans.

Other ArkansasView Projects

ArkansasView leverages existing educational, research, and data warehousing activities at the Center for Advanced Spatial Technologies (CAST) at University of Arkansas. Its focus is to enhance and improve Arkansas' application of remote sensing. Several additional activities in 2011-2012 included giving remote sensing presentations in Arkansas and around the United States, providing workshops in object-based image analysis, and training faculty and students in remote sensing design.



Combining Landsat's high spectral resolution with high spatial resolution datasets such as NAIP has improved the accuracy of land cover classification maps used throughout Arkansas.



- Remote sensing publications
- Faculty and student training
- Landsat and related archives
- Object-based image analysis
- Collaborative image processing

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